



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AFI INDUSTRIES, INC.
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Carol Stream, IL 60188
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MECHANICAL

Valid to: March 31, 2028

Certificate Number: 0813.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests:

Test:	Test Method(s):
Hardness (Rockwell: A, B, C, 15N)	ASTM E18, F606-F606M; ISO 898-1; SAE J81, J82, J933, J1216, J1237, J429
Microhardness (Knoop: HK0.5, Vickers: HV 0.3, 0.5, &1) Case (Hardness & Depth)	ASTM E384; SAE J81, J933, J1237
Fastener Tensile up to 30,000 lbf	
Axial	ASTM F606/F606M; SAE J81, J82, J1216, J1237
Wedge	ASTM F606/F606M; SAE J81, J82, J1216
Proof Load	ASTM F606/F606M (3.2.3, 3.2.5) ISO 898-1
Torsional Strength	ASME B18.6.3; ISO 2702; 898-7; SAE J81, J933, J1237
Ductility	ASME B18.6.3; ISO 2702; SAE J81, J1237
Hydrogen Embrittlement	ASME B18.6.3; SAE J81, J1237; USCAR-7
Drive Test	ASME B18.6.3; ISO 2702; SAE J81, J933, J1237
Proof Torque	SAE J81, J1237
Decarburization by Microhardness	ASTM F2328; ISO 898-1; SAE J121

Test:	Test Method(s):
Sample Preparation	ASTM E3
Surface Discontinuities	ASTM E340, F788/F788M; ISO 6157-1, 6157-3; SAE J123, J1061
Plating Thickness	ASTM B487; ISO 1463

I. Dimensional Testing:

Parameter/Equipment	Range	CMC ¹ (±)	Comments
Linear ² -1D	Up to 1.0000 in Up to 25 mm	0.0004 in 0.011mm	Micrometer-digital combo / *ASME B89.1.13_2013_R2022
	Up to 6.0000 in Up to 152.000 mm	0.0024 in 0.061mm	Caliper digital / *ASME B89.1.14_2018_R2023
	Up to 6.0000 in Up to 152.000 mm	0.0009 in 0.022mm	Length gage-digital combo / MIL-STD-120 *Cancelled (1996) Without Replacement ³
	-2D X: Up to 8 in X: Up to 200 mm Y: Up to 5 in Y: Up to 125 mm	0.0059 in 0.15 mm 0.0043 in 0.11 mm	Optical comparator / MIL-STD-120 *Cancelled (1996) Without Replacement ³
Angular ²	0 to 360°	0.45°	Optical comparator / MIL-STD-120 *Cancelled (1996) Without Replacement ³
Radius ²	Up to 1 in	0.0022"	Optical comparator / MIL-STD-120 *Cancelled (1996) Without Replacement ³
Thread ² - Gaging	#4 thru ½ in dia. UNF & UNC 2A & 3A M3.5 thru M10 6g & 6h	Attribute	System 21 (Go-No-Go gages) / ASME B1.3; FED-STD-H28/20; MIL-S-S7742; SAE AS8879
Straightness ²	Up to 1.0000 in	0.0009 in 0.022 mm	Straightness gage / ASME B18.6.3

¹ Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

² This test is not equivalent to that of a calibration.

The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

Hardness (Rockwell: A, B, C, 15N)	GM 6010M, 6170M, 6171M, 6202M, 6217M; SAE J429
Case (Hardness & Depth)	GM 6010M, 6170M, 6171M, Chrysler MS4515
Fastener Tensile up to 30000 lbs	
Axial	GM 6170M, 6171M, SAE J429
Wedge	GM 6202M, 6217M, SAE J429
Proof Load	SAE J429
Torsional Strength	GM 6010M, 6170M, 6171M, 6202M, 6217M
Ductility	GM 6010M, 6170M, 6171M, 6202M, 6217M
Hydrogen Embrittlement	GM 6010M, 6170M, 6171M, 6202M, 6217M
Drive Test	GM 6010M, 6170M, 6171M, 6202M, 6217M
Decarburization by Microhardness	GM 6104M
Surface Discontinuities	FORD WA900

³ This laboratory's scope contains a method listed as "cancelled without replacement." This indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

AFI INDUSTRIES, INC.

Carol Stream, IL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 17th day of November 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0813.01
Valid to March 31, 2028

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.